8 Asbestos Containing Material (ACM) Research

Field Research at Selected Installations

The majority of military installations typically have extensive asbestos problems for which they must manage the removal and disposal of the materials over time. Most have undergone an asbestos survey in the past, and have asbestos-containing materials (ACM) on base. Several bases report that there may be over 20,000 different ACMs that will ultimately require treatment/disposal. The timing of remediation is dictated by building renovation or demolition. At that time, ACMs must be effectively dealt with. For installations throughout the world, management of the removal actions and maintenance of compliance related information is a necessity. There is a definite and urgent need for an effective way to manage the locations of ACMs, to record the form(s) in which they are present, and to be able to schedule/manage removal actions. Databases compiled with CADD/GIS would be an extremely effective tool for management of ACM hazards.

DESCIM Data Models

One DESCIM model - TOXICV2.pdf - Toxic Substance View – contained information related to the management and abatement of ACMs. This model was reviewed and evaluated for spatially oriented compliance-related tables and attributes associated with the evaluation, control and remediation of ACM. These tables and attributes then were checked for fields that could be integrated into the TSFMS data standards. When relevant fields were identified, they were added to the proposed data structure.

pcV3© Software – Asbestos, Lead-Based Paint & Facility Management Software

pcV3© Software is an interactive database that allows facility management personnel to maintain large amounts of data related to asbestos and lead-based paint. Survey data (detailed and representative), lab results, quantities, conditions, photographs, building plans and abatement activities can all be entered in and reviewed through pcV3©. It combines both text and graphical data in providing a comprehensive record-keeping and management tool. The DESCIM Program Office has selected this program for tracking their asbestos and lead paint abatement activities.

The pcV3© ACM tracking model was reviewed for tables and attributes related to the evaluation, control and remediation of asbestos-containing materials. These tables and attributes then were checked for fields that could be integrated into the TSFMS data standards. When relevant fields were identified, they were added to the proposed data structure.

Baker's DoDDS Activities ACM Database

Baker has performed a significant quantity of work related to the evaluation, control and remediation of ACMs for the Department of Defense under the Department of Defense Dependents Schools (DoDDS) Program. As part of this project, Baker has developed a database for storing information related to the ACM investigation and remediation. The content of this database was reviewed and compared to the existing TSSDS database to identify data fields that could be included in the TSFMS data standards. When relevant fields were identified, they were added to the proposed data structure.

Patuxent River ENRMS Module of the APMM

Pax River's ENRMS module includes ACM management features. The data dictionary was reviewed for information that could be added to the TSFMS data standards. When relevant fields were identified, they were added to the proposed data structure.

Other Information Sources

Baker also reviewed information available on the Environmental Protection Agency's (EPA's) home page (http://www.epa.gov) to identify additional areas of concern that should be included in the TSFMS data standard. When relevant issues were identified, they were added to the proposed data structure.